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ABSTRACT

A glassy-film-forming coating agent comprising compounds represented by the following general formulae (1), (2) and (3):

 $R_{p}^{1}Si(OR^{2})_{4-p}$  (1  $R^{2}(OSi(OR^{2})_{2})_{q}OR^{2}$  (2  $M(OR^{3})_{p}$  (3

wherein  $R^1$  is a polymerizable organic group,  $R^2$  is an alkyl group having not more than 4 carbon atoms,  $R^3$  is an alkyl group having not more than 6 carbon atoms, P is an integer of 1 to 3, P is an integer of 1 to 10, P is a trivalent or tetravalent metal ion, and P is an integer of 3 or 4 corresponding to the valence of P is an integer of 3 or 4 corresponding to the valence of P is an integer of 3 or 4 corresponding to the valence of P is an integer of 3 or 4 corresponding to the valence of P is an integer of 3 or 4 corresponding to the valence of P is an integer of 3 or 4 corresponding to the valence of P is an integer of 3 or 4 corresponding to the valence of P is an integer of 3 or 4 corresponding to the valence of P is an integer of 1 to 3, P is an i

The present invention provides a coating agent useful for forming a glassy film which has sufficiently high flexibility and which hardens rapidly with its thickness in the order of microns being well controlled, the hardened film showing high adhesion to a substrate and excellent organic solvent resistance. The present invention also provides a glassy-film-coating method and system using this coating agent.